

## EAST Search History

L5	20	(position or location) and microphone and far\$4 and close\$4 and (air adj puff)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/02/17 13:57
L6	2	((381/122).ccls.) and 2 and @ay<="2000"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/17 14:02
L7	10	((381/56).ccls.) and 2 and @ay<="2000"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/17 14:07
L8	115	((381/56).ccls.) and 1 and @ay<="2000"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/17 14:05
L9	3	((381/92).ccls.) and 2 and @ay<="2000"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/17 14:07
L10	5	((381/108).ccls.) and 2 and @ay<="2000"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/17 14:08
L11	1	((381/123).ccls.) and 2 and @ay<="2000"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/17 14:08
L12	37	((381/123).ccls.) and 1 and @ay<="2000"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/17 14:09

## EAST Search History

L13	61	((381/58).ccls.) and 1 and @ay<="2000"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/17 14:11
L14	31	((381/91).ccls.) and 1 and @ay<="2000"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/17 14:13
L15	6	((381/95).ccls.) and 2 and @ay<="2000"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/17 14:14
L16	10	((381/106).ccls.) and 2 and @ay<="2000"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/17 14:15
L17	5	((381/110).ccls.) and 2 and @ay<="2000"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/17 14:16
L18	6	((381/111-115).ccls.) and 2 and @ay<="2000"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/17 14:17
L19	1	((700/94).ccls.) and 2 and @ay<="2000"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/17 14:18
L20	0	((434/307a).ccls.) and 2 and @ay<="2000"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/17 14:18

## EAST Search History

L21	112	((434/307a).ccls.) and 1 and @ay<="2000"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/17 14:20
L22	79	((434/307r).ccls.) and 1 and @ay<="2000"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/17 14:21
L23	24	((434/319).ccls.) and 1 and @ay<="2000"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/17 14:22
L24	62	((84/610).ccls.) and 1 and @ay<="2000"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/17 14:25
L25	3	"5764779"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/17 14:25
L26	6	("4164626"   "4449189"   "4912764"   "5099455"   "5319715").PN. OR ("5764779").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/02/17 14:29
L27	1	"6201537"	US-PGPUB; USPAT; USOCR	OR	ON	2006/02/17 14:30
L28	24	("4340908"   "4553257"   "4661994"   "5081682"   "5161198"   "5191620"   "5309517"   "5477262"   "5481616"   "5528255"   "5557724"   "5579397"   "5581626"   "5617478"   "5666426"   "5670972"   "5771301"   "5793874"   "5796847"   "5799036"   "5832438"   "5850560"   "5864702"   "5887147").PN. OR ("6201537").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/02/17 14:30
S1	883098	(microphone and (turn adj off ) near\$3 (turn adj on))	USPAT; EPO	OR	OFF	2003/04/16 10:27
S2	106	((381/58).ccls") and (microphone and (turn adj off ) near\$3 (turn adj on))	USPAT; EPO	OR	OFF	2003/04/16 10:29

## EAST Search History

		((381/56)".ccls") same (((detect\$4 or determine) and microphone)	USPAT; EPO	OR	OFF	2005/11/30 15:42
		((("6098463") or ("4350846") or ("4847885") or ("6148077") or ("4385542") or ("4528689") or ("5020098") or ("5539859") or ("5674415") or ("5717769") or ("5844995") or ("6389888") or ("5400399") or ("5784471") or ("4543665") or ("4615680") or ("4837832") or ("4891837") or ("4917504") or ("4975967") or ("4995085") or ("5379338") or ("5386478") or ("5471650") or ("5721771") or ("5761298") or ("5770810") or ("5841856") or ("5867573") or ("5899977") or ("6011853") or ("6101402") or ("6212273") or ("6212273") or ("6233549") or ("6389111") or ("6456720") or ("5940479") or ("5664226") or ("5506690") or ("5532840") or ("5956681") or ("4306113") or ("5200951") or ("5264850") or ("5434797") or ("5745380") or ("5751816") or ("5910946") or ("5982880")).PN.	USPAT; USOCR; EPO	OR	OFF	2005/12/05 16:36
L1	79641	((detect\$4 or determine) and microphone)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/17 13:51
L2	1450	((on adj off) adj state)near\$2 microphone) same (detect\$4 or determine) same (feedback or feed adj back) same (audio or sound or acoustic)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/17 13:52
L3	613	(381/122)".ccls" and 1 and @ay<="2000"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/17 13:53
L4	70	((381/122).ccls.) and 1 and @ay<="2000"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/17 14:00

## EAST Search History

S24 4	395	S241 and S243 and @ay<="2000"	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2005/12/05 13:51
S24 5	0	S240 and S243 and @ay<="2000"	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2005/12/05 13:48
S24 6	20	(position or location) and microphone and Far\$4 and close\$4 and (air adj puff)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/02/17 13:57
S24 7	477	(position or location) same microphone same Far\$4 same close\$4	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2005/12/05 13:50
S24 8	1	S247 and S243 and @ay<="2000"	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2005/12/05 13:51
S24 9	122	((381/123).ccls.) and microphone\$2	US-PGPUB; USPAT; USOCR; EPO	OR	OFF	2005/12/05 13:57
S25 0	62	((381/123).ccls.) and microphone\$2 and @ay<="2000"	US-PGPUB; USPAT; USOCR; EPO	OR	OFF	2005/12/05 13:57
S25 1	63	((381/108).ccls.) and (((turn adj on) same (turn adj off)) adj state)near\$2 microphone)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2005/12/05 13:59
S25 2	57	((381/108).ccls.) and (((turn adj on) same (turn adj off)) adj state)near\$2 microphone) and @ay<="2000"	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2005/12/05 13:59
S25 3	1	("5714997").PN.	USPAT; USOCR; EPO	OR	OFF	2005/12/05 16:37

## EAST Search History

S13 5	0	((frequency adj domain) adj transform) or ((finite adj impluse adj response) or (FIR)) same microphone) and @ay<="2000" and "381"/\$	EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/06/04 13:01
S13 6	183	((frequency adj domain) adj transform) or ((finite adj impluse adj response) or (FIR)) same microphone)	EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/06/04 13:01
S13 7	125	((frequency adj domain) adj transform) or ((finite adj impluse adj response) or (FIR)) same microphone) and @ay<="2000" and noise adj ratio	US-PGPUB; USPAT; USOCR	OR	OFF	2005/06/04 13:26
S13 8	67163	((frequency adj domain) adj transform) or ((finite adj impluse adj response) or (FIR)) same microphone) and @ay<="2000" and noise adj ratio and voice or speech	US-PGPUB; USPAT; USOCR	OR	OFF	2005/06/04 13:26
S13 9	203127	((frequency adj domain) adj transform) or ((finite adj impluse adj response) or (FIR)) same microphone) and @ay<="2000" and noise adj ratio and voice or audio	US-PGPUB; USPAT; USOCR	OR	OFF	2005/06/04 13:27
S14 0	125	((frequency adj domain) adj transform) or ((finite adj impluse adj response) or (FIR)) same microphone) and @ay<="2000" and noise adj ratio	US-PGPUB; USPAT; USOCR	OR	OFF	2005/06/04 13:27
S14 1	0	((frequency adj domain) adj transform) or ((finite adj impluse adj response) or (FIR)) same microphone) and @ay<="2000" same noise adj ratio	US-PGPUB; USPAT; USOCR	OR	OFF	2005/06/04 13:27
S14 2	125	((frequency adj domain) adj transform) or ((finite adj impluse adj response) or (FIR)) same microphone) and @ay<="2000" and noise adj ratio	US-PGPUB; USPAT; USOCR	OR	OFF	2005/06/04 15:45
S14 3	1	("5714997").PN.	USPAT; USOCR	OR	OFF	2005/06/04 15:45
S14 4	1	("6665409").PN.	USPAT; USOCR	OR	OFF	2005/06/06 09:38
S14 5	314	((381/56).ccls") and (detect\$4 and microphone)	US-PGPUB; USPAT; USOCR; EPO	OR	OFF	2005/11/28 11:42
S14 6	95	((381/56).ccls.) and (detect\$4 and microphone) and @ay<="2000"	US-PGPUB; USPAT; USOCR; EPO	OR	OFF	2005/11/28 11:59
S14 7	4	((("5692057") or ("5805717") or ("5625697") or ("5569038"))).PN.	USPAT; USOCR	OR	OFF	2005/11/28 12:00

## EAST Search History

S14 8	5	((("5400406") or ("5581621") or ("6766025") or ("6760451") or ("6266571")).PN.	USPAT; USOCR; EPO	OR	OFF	2005/11/28 13:40
S14 9	352	(381/56) and((detect\$4 or determine) and microphone)	US-PGPUB; USPAT; USOCR; EPO	OR	OFF	2005/11/28 15:33
S15 0	279	(381/56) and((detect\$4 or determine) and microphone) and @ay<="2000"	US-PGPUB; USPAT; USOCR; EPO	OR	OFF	2005/11/28 15:33
S15 1	156	((381/56).ccls.) and (on adj off adj state near\$2 microphone) and @ay<="2000"	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2005/11/29 10:45
S15 2	0	((381/56).ccls.) and (((on adj off) adj state) near2 microphone) and @ay<="2000"	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2005/11/29 10:46
S15 3	0	((381/56).ccls.) and (((on adj off) adj state) and microphone) and @ay<="2000"	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2005/11/29 10:47
S15 4	0	((381/56).ccls.) and (((on adj off) near2 state) and microphone) and @ay<="2000"	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2005/11/29 10:47
S15 5	0	((381/56).ccls.) and (((on adj off) and state) and microphone) and @ay<="2000"	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2005/11/29 10:47
S15 6	0	((381/56).ccls.) and ((on adj off) and microphone) and @ay<="2000"	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2005/11/29 10:47
S15 7	0	((381/56).ccls.) and (on adj off) and microphone and @ay<="2000"	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2005/11/29 13:40
S15 8	0	((("381"/\$).ccls.) and (on adj off) and microphone and @ay<="2000"	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2005/11/29 10:48
S15 9	0	((("381"/\$).ccls.) and (on same off) and microphone and @ay<="2000"	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2005/11/29 10:49

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S16 0	142	((381/56).ccls.) and microphone and @ay<="2000"	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2005/11/29 10:49
S16 1	2	(("381"/\$).ccls.) and (on and off) and microphone and @ay<="2000"	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2005/11/29 10:49
S16 2	0	((381/58).ccls.) and (microphone and ((turn adj off ) near3 (turn adj on)))	USPAT; USOCR; EPO; JPO	OR	OFF	2005/11/29 10:56
S16 3	0	(("381"/\$).ccls.) and (microphone and ((turn adj off ) near3 (turn adj on)))	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2005/11/29 10:57
S16 4	0	(("73"/\$).ccls.) and (microphone and ((turn adj off ) near3 (turn adj on)))	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2005/11/29 10:57
S16 5	100	((381/122).ccls.) and microphone and @ay<="2000"	USPAT; EPO	OR	OFF	2005/11/29 10:58
S16 6	126	((381/122).ccls.) and microphone and @ay<="2000"	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2005/11/29 10:59
S16 7	52	((381/122).ccls.) and microphone and (on or off) and @ay<="2000"	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2005/11/29 11:29
S16 8	46	((381/123).ccls.) and microphone and (on or off) and @ay<="2000"	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2005/11/29 12:32
S16 9	88	((381/111-115).ccls.) and microphone and (on or off) and @ay<="2000"	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2005/11/29 12:32
S17 0	0	((381/56).ccls.) and (on and off) and microphone and @ay<="2000"	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2005/11/29 13:40
S17 1	4	((381/56).ccls.) and (on or off) near2 microphone and @ay<="2000"	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2005/11/29 13:45
S17 2	21	((381/92).ccls.) and (on or off) near2 microphone and @ay<="2000"	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2005/11/29 14:34

## EAST Search History

S17 3	3	"5949886"	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2005/11/29 14:34
S17 4	9	("4773094"   "4829578"   "4993060"   "5036538"   "5291558"   "5610988"   "5640450"   "5715310").PN. OR ("5949886").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/11/29 14:38
S17 5	11	((("5764779") or ("6453289") or ("4357488") or ("5764779") or ("6453289") or ("4357488") or ("5764779") or ("6097820") or ("4856072") or ("5657422") or ("5319703") or ("6415253") or ("6757367") or ("6163608") or ("5569038")).PN.	USPAT; USOCR; EPO	OR	OFF	2005/11/29 16:12
S17 6	97	microphone same on same off	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2005/11/30 11:32
S17 7	35	microphone same state\$1 same on same off	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2005/11/30 11:37
S17 8	0	microphone same state\$1 same on same off and @ay<="2000"	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2005/11/30 11:33
S17 9	201	microphone same state\$1 same on/off	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2005/11/30 11:38
S18 0	397	microphone and (threshold or refernce or level) and (on/off adj state\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2005/11/30 11:40
S18 1	114897	compar\$4 and (voice or vox or audio) and (display or monitor)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2005/11/30 11:43
S18 2	113	S180 and S181 and @ay<="2000"	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2005/11/30 12:02
S18 3	45	S179 and S181 and @ay<="2000"	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2005/11/30 12:03

## EAST Search History

S18 4	139	frequency adj domain adj parameter\$1	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2005/11/30 15:07
S18 5	74	frequency adj domain adj parameter\$1 and @ay<="2000"	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2005/11/30 15:08
S18 6	9	((381/56).ccls.) and ((detect\$4 or determine) and microphone) and on/off	USPAT; EPO	OR	OFF	2005/11/30 15:46
S18 7	12	((381/110).ccls.) and ((detect\$4 or determine) and microphone) and on/off and @ay<="2000"	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2005/11/30 15:55
S18 8	0	microphone same (threshold or level or reference) same (on near2 off)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2005/11/30 15:57
S18 9	313	microphone same (threshold or level or reference) same (on/off)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2005/11/30 16:16
S19 0	230489	voice or vox	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2005/11/30 15:58
S19 1	1289738	display or monitor\$3 same microphone same on/off	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2005/11/30 15:59
S19 2	50	S189 and S190 and S191 and @ay<="2000"	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2005/11/30 15:59
S19 3	2	microphone same (compar\$4 adj (threshold or level or reference)) same (on/off)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2005/11/30 16:20
S19 4	254	microphone and (compar\$4 adj (threshold or level or reference)) and (on/off)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2005/11/30 16:21
S19 5	165	microphone and (compar\$4 adj (threshold or level or reference)) and (on/off) and @ay<="2000"	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2005/11/30 16:22

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S19 6	27369	frequency adj domain	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2005/11/30 16:23
S19 7	8118	frequency adj domain and voice or vox	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2005/11/30 16:23
S19 8	6	S194 and S197 and @ay<="2000"	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2005/11/30 16:23
S19 9	21987	(sound or oragin\$4 or audio) adj source	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2005/12/01 13:42
S20 0	2538	(frequency adj domain) and detect\$4 and microphone	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2005/12/01 15:39
S20 1	182	parameter\$1 and S199 and S200 and @ay<="2000"	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2005/12/01 14:04
S20 2	85	parameter\$1 and enhance and S199 and S200 and @ay<="2000"	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2005/12/01 14:05
S20 3	79	parameter\$1 and enhance and informat\$4 and S199 and S200 and @ay<="2000"	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2005/12/01 14:40
S20 4	75187	value and amplitude and level and (display or led)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2005/12/01 15:40
S20 5	62	parameter\$1 and enhance and informat\$4 and S199 and S200 and S204 and @ay<="2000"	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2005/12/01 15:41
S20 6	158	(frequency adj domain) and ((signal adj to adj noise) or s/n) adj ratio and microphone	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2005/12/01 15:48
S20 7	61374	value and amplitude and level and (display or lcd)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2005/12/01 15:40

## EAST Search History

S20 8	55	parameter\$1 and enhance and informat\$4 and S206 and S207 and @ay<="2000"	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2005/12/01 15:56
S20 9	494	frequency adj domain and (signal adj to adj noise) adj ratio or ((s/n) adj ratio) and microphone and @ay<="2000"	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2005/12/01 15:53
S21 0	79	(frequency adj domain) and (((signal adj to adj noise) adj ratio) or ((s/n) adj ratio)) and microphone and @ay<="2000"	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2005/12/01 15:54
S21 1	264	(frequency adj domain) and (((signal adj noise) adj ratio) or ((s/n) adj ratio)) and microphone and @ay<="2000"	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2005/12/01 15:55
S21 2	530	(frequency adj domain) and (((signal adj noise) adj ratio) or ((s/n) adj ratio)) and microphone	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2005/12/01 15:55
S21 3	95	parameter\$1 and enhance and informat\$4 and S212 and S207 and @ay<="2000"	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2005/12/01 15:56
S21 4	0	((434/307a).ccls.) and frequency adj domain	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2005/12/02 11:18
S21 5	0	((434/307a).ccls.) and (frequency adj domain)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2005/12/02 11:18
S21 6	4	((434/307r).ccls.) and (frequency adj domain)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2005/12/02 15:23
S21 7	0	((434/307r).ccls.) and ((signal adj noise adj ratio) or snr)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2005/12/05 13:47
S21 8	0	((434/307a).ccls.) and ((signal adj noise adj ratio) or snr)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2005/12/02 11:32
S21 9	44	((("434"/\$).ccls.) and ((signal adj noise adj ratio) or snr)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2005/12/02 11:22

## EAST Search History

S22 0	34	((("434"/\$).ccls.) and ((signal adj noise adj ratio) or snr) and @ay<="2000"	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2005/12/02 11:22
S22 1	254	((434/307a).ccls.) and @ay<="2000"	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2005/12/02 11:33
S22 2	463	((frequency adj domain) adj transform) or ((finite adj implulse adj response) or (FIR)) same microphone and ((381/106).ccls.)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2005/12/02 15:16
S22 3	463	((frequency adj domain) adj transform) or ((finite adj implulse adj response) or (FIR)) same microphone and ((381/106).ccls.) and @ay<="2000"	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2005/12/02 15:13
S22 4	70	(display or screen) with (microphone\$1 or micro-phonne\$1) near3 (clos\$3 or far\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2005/12/02 15:19
S22 5	0	S223 and S224	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2005/12/02 15:16
S22 6	1021	((frequency adj domain) adj transform) or ((finite adj implulse adj response) or (FIR)) same microphone	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2005/12/02 15:16
S22 7	1	S226 and S224	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2005/12/02 15:18
S22 8	149	(display or screen) with (microphone\$1 or micro-phonne\$1) near3 indicat\$3	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2005/12/02 15:18
S22 9	0	S226 and S228	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2005/12/02 15:18
S23 0	5	(display or screen) with (microphone\$1 or micro-phonne\$1) near3 (visual or icon\$1) with (clos\$3 or far\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2005/12/02 15:21
S23 1	6	(display or screen) with (microphone\$1 or micro-phonne\$1) with (visual or icon\$1) near3(clos\$3 or far\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2005/12/05 12:23

## EAST Search History

S23 2	30	((381/122).ccls.) and (frequency adj domain)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2005/12/02 15:29
S23 3	5	((("5490219") or ("5400406") or ("5109699") or ("5555311") or ("5796843")).PN.	USPAT; USOCR	OR	OFF	2005/12/02 15:30
S23 4	14	("2408878"   "4048564"   "4061891"   "4072900"   "4577072"   "4591671"   "4714875"   "4903323"   "5163079").PN. OR ("5400406").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/12/02 16:03
S23 5	83	((381/58).ccls.) and microphone and @ay<="2000"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/05 12:13
S23 6	2191	frequency same (audio sound) same (placement location) same source	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2005/12/05 12:25
S23 7	41018	((("381"/\$).ccls.)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2005/12/05 12:25
S23 8	382	S236 and S237	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2005/12/05 12:25
S23 9	132	frequency same parameter\$2 same (audio sound) same (placement location) same source	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2005/12/05 13:38
S24 0	16	frequency same parameter\$2 same (audio sound) same (placement location) same source same microphone	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2005/12/05 13:41
S24 1	13145	(position or location) and microphone and Far\$4 and close\$4	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2005/12/05 13:50
S24 2	20	(position or location) and microphone and Far\$4 and close\$4 and (air adj puff)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2005/12/05 13:43
S24 3	47975	((signal adj noise adj ratio) or snr)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2005/12/05 13:48